

May 9.—Not seen; 1873, April 20.—Not seen (strong twilight); 1874, April 10.—Not seen (fine sky); May 8.—The Rev. Mr. Webb has independently remarked the variability of this star.

$$218. \alpha = \begin{matrix} h & m & s \\ 18 & 39 & 34 \end{matrix} : \delta = \begin{matrix} ^\circ & ' & '' \\ +8 & 37 & 1 \end{matrix}.$$

Cape Obs. Plum-coloured, or ruddy purple, 9.

Not seen; 1872, May 11.—Not seen; 1874, May 8.

$$219. \alpha = \begin{matrix} h & m & s \\ 18 & 42 & 52 \end{matrix} : \delta = \begin{matrix} ^\circ & ' & '' \\ -8 & 2 & 58 \end{matrix}.$$

Cape Obs. Most remarkable ruby red, 9.

Fine orange red, 7.5-8; 1873, April 18.—Very fine orange red, 7-8; September 23.—Fine orange red, 8 at least; 1874, May 8.

$$222. \alpha = \begin{matrix} h & m & s \\ 18 & 52 & 42 \end{matrix} : \delta = \begin{matrix} ^\circ & ' & '' \\ +14 & 11 & 9 \end{matrix}.$$

Lamont, Z 199; rubra. S.

Fine red, 8; 1872, May 16.—A good red, 9-9.5; 1873, April 6.—Fine red, 9-5.10; 1874, May 8. Secchi says of this star in his "Memoria II.," presented to the Italian Society in November 1868: "È piccola di 9^a, e nulla ha di particolare nello spettro." He gives no date of observation.

$$247. \alpha = \begin{matrix} h & m & s \\ 21 & 9 & 34 \end{matrix} : \delta = \begin{matrix} ^\circ & ' & '' \\ +59 & 35 & 12 \end{matrix}.$$

Conn. d. T. xv.; rouge. Arg.; sehr roth, 8.

Red, not deep, 6.5; 1872, July 14.—Orange red, 6.5; 1873, September 28. Secchi, in the Memoir already quoted, says of this star: "Debolmente rossa di 8, 9, senza nulla di singolare nello spettro."

Phenomena of Jupiter's Satellites observed at the Stonyhurst Observatory in 1873-74. By the Rev. S. J. Perry.

Date.	Satellite.	Phenomenon.	G.M.T.	Observer.	Remarks.
1873.			<div><div>h</div><div>m</div><div>s</div></div>		
May 2	II.	Sh. I. internal contact	8 58 18.3	S. P.	Probably late.
		Tr. E. int. contact	9 9 56.3	„	
		bisection	9 14 12.8	„	

H H 2

Date. 1873.	Satellite.	Phenomenon.	G.M.T. h m s	Observer.	Remarks.
May 9		Tr. I. external contact	8 54 27.5	W. C.	
		bisection	8 57 6.5	"	
		int. contact	8 59 52.0	"	Thin clouds.
May 11		Ecc. R. first seen	9 30 1.6	S. P.	} Very good.
		full brightness	9 32 26.8	"	
May 12	I.	Occ. D. last seen	11 48 28.4	"	Clouds passing.
May 13		Tr. I. ext. contact	9 7 58.2	"	} Slight mist. Definition not good.
		bisection	9 10 27.5	"	
		int. contact	9 12 42.5	"	
		Sh. I. bisection	10 28 40.5	"	Probably late.
		int. contact	10 30 14.0	"	
		Tr. E. int. contact	11 25 40.2	"	} Mist, very bad.
		bisection	11 28 51.5	"	
		ext. contact	11 31 33.0	"	
May 14		Ecc. R. first seen	9 51 12.6	"	Slight haze.
May 21	III.	Sh. E. bisection	8 47 51.3	W. C.	} Very good. Shadow very dark.
		last seen	8 49 39.8	"	
May 22	I.	Sh. E. int. contact	9 3 53.1	"	} Faint. Boiling.
		bisection	9 5 19.6	"	
		last seen	9 7 2.6	"	
	IV.	Ecc. R. first seen	10 44 12.6	"	
May 28	III.	Sh. I. bisection	9 24 1.6	S. P.	
		int. contact	9 26 47.1	"	
	I.	Occ. D. first contact	10 13 9.0	"	
		bisection	10 15 27.1	"	
June 4	III.	Tr. I. ext. contact	8 21 33.1	"	} Daylight.
		bisection	8 25 10.6	"	
		int. contact	8 28 18.6	"	
Oct. 19	III.	Sh. I. bisection	16 53 38.6	W. C.	Not very good.
Oct. 28	I.	Ecc. D. last seen	16 30 21.9	"	
Nov. 12	I.	Tr. I. ext. contact	18 17 27.5	"	
		bisection	18 20 2.0	"	
		int. contact	18 22 51.5	"	
Nov. 25	IV.	Ecc. R. first seen	16 2 13.1	"	
Dec. 11	III.	Occ. D. first cont.	15 47 36.0	"	
		bisection	15 51 22.5	"	
		last seen	15 54 20.0	"	
1874.					
Feb. 3	III.	Tr. E. bisection	10 53 58.1	"	} Clouds passing.
		ext. contact	11 0 21.1	"	

Date.	Satellite.	Phenomenon.	G.M.T.			Observer.	Remarks.
1874			h	m	s		
Feb. 3	II.	Sh. I. int. contact	14	22	30·1	W.C.	Very faint.
		Tr. I. first contact	15	53	17·1	„	
		bisection	15	56	18·6	„	
		int. contact	15	59	34·1	„	
		Sh. E. int. contact	16	43	35·1	„	Shadow very dark.
		bisection	16	46	18·1	„	
		last seen	16	48	55·1	„	
		Tr. E. int. contact	18	22	5·1	„	
		bisection	18	25	8·1	„	} Tremulous. Thin clouds.
		ext. contact	18	33	44·1	„	
	I.	Ecc. D. light fading	18	50	20·1	„	
		last seen	18	53	46·1	„	
Mar. 9	II.	Ecc. D. last seen	8	14	37·5	„	
Mar. 18	III.	Tr. E. bisection	7	1	11·1	„	
		last contact	7	6	13·1	„	
	II.	Tr. E. bisection	8	3	7·1	„	
		ext. contact	8	8	20·1	„	
	I.	Occ. R. bisection	8	27	58·1	„	
		last contact	8	31	39·1	„	
Mar. 25	II.	Tr. I. bisection	7	40	24·68	„	
		last contact	7	44	35·2	„	
	III.	Sh. E. first contact	11	2	18·2	„	
		bisection	11	6	20·7	„	
		last contact	11	10	30·7	„	
May 17	I.	Ecc. R. first seen	12	37	4·1	„	
	II.	Tr. I. ext. contact	12	4	54·6	„	
		bisection	12	59	44·5	„	
		int. contact	13	4	45·6	„	

The above observations were made during the twelve months from May 1873 to May 1874. Most of the observations in 1873, and all in 1874, were taken by Mr. W. Carlisle. The instrument used was the 8-inch Equatoreal.

Stonyhurst Observatory,
1874, June 12.